

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS:

1. (Original) A combination of a master cylinder device with a brake booster device of an input rod pulling type wherein said brake booster device comprises:

a brake booster whose interior is partitioned by a diaphragm with a piston secured thereto, into a constant pressure chamber and a variable pressure chamber;

a valve mechanism operated by a brake pedal for making said variable pressure chamber communicate selectively with the atmosphere and said constant pressure chamber; and

a reaction mechanism for transmitting the axial movement of said diaphragm generated based on the pressure difference between said constant pressure chamber and said variable pressure chamber from said piston to an output rod; and wherein said master cylinder device connected with said brake booster device comprises:

a master cylinder having a piston rod for generating a braking pressure when pulled by said output rod rearward, said output rod extending as said piston rod in said master cylinder of said master cylinder device; and

floating-motion engaging means provided at the forward end of said piston rod for engaging a first master piston with said piston rod so that said first master piston

is floatable relative to said piston rod but restrained from being moved forward relative to said piston rod in the axial direction of the same.

2. (Currently Amended) The combination as set forth in Claim 1, wherein:
said piston of said brake booster device ~~take~~ takes the form of a cup having a bottom portion and a valve hole;

said output rod passes through said bottom portion and has a receiving portion formed in said valve hole; and

a reaction member of said reaction mechanism is interposed between said receiving portion of said output rod and said bottom portion of said piston of said brake booster device.

3. (Original) The combination as set forth in Claim 1 wherein:
said output rod fluid-tightly passes through a second master piston and said first master piston of said master cylinder device to extend forward as said piston rod; and

said piston rod is engaged at its forward end portion with the forward end of said first master piston through said floating-motion engaging means.

4. (Original) The combination as set forth in Claim 2, wherein:
said output rod fluid-tightly passes through a second master piston and said first master piston of said master cylinder device to extend forward as said piston rod; and

said piston rod is engaged at its forward end portion with the forward end of said first master piston through said floating-motion engaging means.

5. (Original) The combination as set forth in Claim 1, wherein said piston of said brake booster device is constituted by bodily connecting a first piston portion incorporating said reaction mechanism for transmitting the movement of said piston through a reaction member to said output rod, with a second piston portion opening to a passenger room at one end thereof.

6. (Original) The combination as set forth in Claim 2, wherein said piston of said brake booster device is constituted by bodily connecting a first piston portion incorporating said reaction mechanism for transmitting the movement of said piston through a reaction member to said output rod, with a second piston portion opening to a passenger room at one end thereof.

7. (Original) The combination as set forth in Claim 3, wherein said piston of said brake booster device is constituted by bodily connecting a first piston portion incorporating said reaction mechanism for transmitting the movement of said piston through a reaction member to said output rod, with a second piston portion opening to a passenger room at one end thereof.

8. (New) A combination of a master cylinder device with a brake booster device of an input rod pulling type wherein said brake booster device comprises:

a brake booster possessing an interior partitioned by a diaphragm into a constant pressure chamber and a variable pressure chamber, and a piston secured to the diaphragm;

a valve mechanism operated by a brake pedal for selectively communicating said variable pressure chamber with atmosphere and said constant pressure chamber; and

a reaction mechanism which transmits axial movement of said diaphragm resulting from a pressure difference between said constant pressure chamber and said variable pressure chamber from said piston to an output rod; and wherein said master cylinder device connected with said brake booster device comprises:

a master cylinder having a piston rod which generates a braking pressure when pulled rearward by said output rod, said output rod extending as said piston rod in said master cylinder of said master cylinder device;

a first master piston slidably positioned in the master cylinder, the piston rod being positioned with play in a through hole of the first master piston; and

floating-motion engaging means provided at a forward end of said piston rod for engaging the first master piston with said piston rod so that said first master piston is floatable relative to said piston rod but restrained from being moved forward relative to said piston rod in an axial direction of the piston rod.

9. (New) The combination as set forth in Claim 8, wherein:

said piston of said brake booster device takes the form of a cup having a bottom portion and a valve hole;

said output rod passes through said bottom portion and has a receiving portion formed in said valve hole; and

a reaction member of said reaction mechanism is interposed between said receiving portion of said output rod and said bottom portion of said piston of said brake booster device.

10 (New) The combination as set forth in Claim 8, wherein:

said output rod fluid-tightly passes through a second master piston and said first master piston of said master cylinder device to extend forward as said piston rod; and

said piston rod is engaged at its forward end portion with the forward end of said first master piston through said floating-motion engaging means.

11. (New) The combination as set forth in Claim 8, wherein said piston of said brake booster device is constituted by bodily connecting a first piston portion incorporating said reaction mechanism for transmitting the movement of said piston through a reaction member to said output rod, with a second piston portion opening to a passenger room at one end thereof.

12. (New) The combination as set forth in Claim 8, wherein said floating-motion engaging means comprises a washer positioned in a groove at the forward end of the piston rod and contacting an engaging hole at a forward end surface of the first master piston.

13. (New) The combination as set forth in Claim 12, wherein said engaging hole at the forward end surface of the first master piston is larger in diameter than said through hole in the first master piston.

14. (New) The combination as set forth in Claim 8, wherein said floating-motion engaging means comprises an engaging member secured to the forward end of the piston rod, the engaging member possessing a rearwardly facing spherical engaging surface which engages a forwardly facing spherical seat provided on the first master piston.

15. (New) A combination of a master cylinder device with a brake booster device of an input rod pulling type wherein said brake booster device comprises:

a brake booster possessing an interior partitioned by a diaphragm into a constant pressure chamber and a variable pressure chamber, and a piston secured to the diaphragm;

a valve mechanism operated by a brake pedal for selectively communicating said variable pressure chamber with atmosphere and said constant pressure chamber; and

a reaction mechanism which transmits axial movement of said diaphragm resulting from a pressure difference between said constant pressure chamber and said variable pressure chamber from said piston to an output rod; and wherein said master cylinder device connected with said brake booster device comprises:

a master cylinder having a piston rod which generates a braking pressure when pulled rearward by said output rod, said output rod extending as said piston rod in said master cylinder of said master cylinder device;

a first master piston slidably positioned in the master cylinder, the piston rod being positioned in a hole of the first master piston; and

floating-motion engaging means provided at a forward end of said piston rod for engaging the first master piston with said piston rod so that said first master piston is floatable relative to said piston rod but restrained from being moved forward relative to said piston rod in an axial direction of the piston rod, the floating-motion engaging means being positioned forwardly of the reaction mechanism.

16. (New) The combination as set forth in Claim 15, wherein:

said piston of said brake booster device takes the form of a cup having a bottom portion and a valve hole;

said output rod passes through said bottom portion and has a receiving portion formed in said valve hole; and

a reaction member of said reaction mechanism is interposed between said receiving portion of said output rod and said bottom portion of said piston of said brake booster device.

17 (New) The combination as set forth in Claim 15, wherein:

said output rod fluid-tightly passes through a second master piston and said first master piston of said master cylinder device to extend forward as said piston rod; and

said piston rod is engaged at its forward end portion with the forward end of said first master piston through said floating-motion engaging means.

18. (New) The combination as set forth in Claim 15, wherein said piston of said brake booster device is constituted by bodily connecting a first piston portion incorporating said reaction mechanism for transmitting the movement of said piston through a reaction member to said output rod, with a second piston portion opening to a passenger room at one end thereof.

19. (New) The combination as set forth in Claim 15, wherein said floating-motion engaging means comprises a washer positioned in a groove at the forward end of the piston rod and contacting an engaging hole at a forward end surface of the first master piston, said engaging hole at the forward end surface of the first master piston being larger in diameter than said through hole in the first master piston.

20. (New) The combination as set forth in Claim 15, wherein said floating-motion engaging means comprises an engaging member secured to the forward end of the piston rod, the engaging member possessing a rearwardly facing spherical engaging surface which engages a forwardly facing spherical seat provided on the first master piston.